

Substitute for Form 1449 A & B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
OCT 09 2007 SEARCHED INDEXED MAILED Sheet		1	of	5	Application Number 10/535,419 Confirmation Number 5977 Filing Date May 19, 2005 First Named Inventor Yoshiki SHIRAKAWA Art Unit 1796 Examiner Name Gennadiy MESH Attorney Docket Number Q87995

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
/GM/	1	US 7,087,299	B2	08-08-2006	TEIJIN FIBERS LTD
	2	US 7,189,797	B2	03-13-2007	TEIJIN LTD
	3	US 6,284,370	B1	09-04-2001	FUJIMOTO ET AL
	4	US 6,316,101	B2	11-13-2001	KATO ET AL
	5	US 2003/0059612	A1	03-27-2003	CHO ET AL
	6	US 2006/0147709	A1	07-06-2006	MIZUMURA ET AL
	7	US 2006/0057373	A1	03-16-2006	INAGAKI ET AL
	8	US 2006/0051576	A1	03-09-2006	SOEDA ET AL
/GM/	9	US 4,254,018		03-03-1981	KOWALLIK ET AL

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>	
		Country Code <sup>3</sup>	Number <sup>4</sup>				
/GM/	10	JP	2003-119619		04-23-2003	TEIJIN LTD	Yes
/GM/	11	WO	03/027166	A1	04-03-2003	TEIJIN LTD	Abstract
/GM/	12	JP	2001-278971	A	10-10-2001	TEIJIN LTD	Abstract
	13	JP	2003-293222	A	10-15-2003	TEIJIN LTD	Abstract
/GM/	14	WO	92/13119	A1	08-06-1992	COLLINS ET AL (Abstract Only)	Abstract
/GM/	15	EP	1437373	A1	07-14-2004	TEIJIN LTD	
/GM/	16	EP	1094137	A1	09-10-2000	BERGMANN ET AL	Abstract
/GM/	17	EP	1110988	A1	06-27-2001	TEIJIN LTD	
/GM/	18	EP	1273610	A1	01-08-2003	MITSUBISHI CHEMICAL CORP	
/GM/	19	GB	769220		03-06-1957	E. I. Du PONT De NEMOURS & CO.	
/GM/	20	WO	9619520	A1	06-27-1996	EASTMAN CHEMICAL CO.	

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.			Translation <sup>6</sup>

Examiner Signature	/Gennadiy Mesh/	Date Considered	11/28/2007
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/535,419
				Confirmation Number	5977
				Filing Date	May 19, 2005
				First Named Inventor	Yoshiki SHIRAKAWA
				Art Unit	1796
				Examiner Name	Gennadiy MESH
Sheet	2	of	5	Attorney Docket Number	Q87995

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
/GM/	21	US 5,331,032		07-19-1994	SUZUKI ET AL
	22	US 2006/014920	A1	01-19-2006	SHIRAKAWA ET AL
	23	US 4,208,527		06-17-1980	HORLBECK ET AL
	24	US 4,254,018		03-03-1981	KOWALLIK ET AL
	25	US 5,565,522		10-15-1996	BOHRINGER ET AL
	26	US 5,744,572		04-28-1998	SCHUMANN ET AL
	27	US 5,981,690		11-09-1999	LUSTIG ET AL
/GM/	28	US 6,262,220		07-17-2001	PASCHKE ET AL

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
	29	JP	59-46258	A	03-15-1984		
/GM/	30	JP	2001-323054	A	11-20-2001		Abstract
/GM/	31	JP	9119051	A	05-06-1997		Abstract
/GM/	32	JP	2003-119270	A	04-23-2003		Abstract
/GM/	33	JP	5345395	A	12-27-1993		Abstract
/GM/	34	JP	53106751		09-18-1978		Abstract
/GM/	35	JP	8170248	A	07-02-1996		Abstract
/GM/	36	JP	5209366	A	08-20-1993		Abstract
	37	JP	7138354	A	05-30-1995		Abstract
/GM/	38	JP	6108357	A	04-19-1994		Abstract
/GM/	39	JP	2000-314038	A	11-14-2000		Abstract

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>

Examiner Signature	/Gennadiy Mesh/	Date Considered	11/28/2007
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO				<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/535,419
				Confirmation Number	5977
				Filing Date	May 19, 2005
				First Named Inventor	Yoshiki SHIRAKAWA
				Art Unit	1796
				Examiner Name	Gennadiy MESH
Sheet	3	of	5	Attorney Docket Number	Q87995

**U.S. PATENT DOCUMENTS**

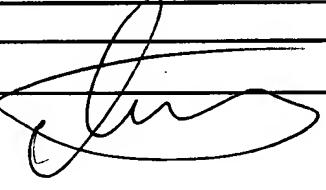
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
/GM/	40	US 6,231,976	B1	05-15-2001	EASTMAN CHEMICAL CO
	41	US 6,197,856	B1	03-06-2001	EASTMAN CHEMICAL CO
	42	US 6,359,079	B1	03-19-2002	PALMER, JR
	43	US 6,672,208	B2	01-06-2004	BECHTLER ET AL
/GM/	44	US 6,701,302	B1	03-02-2004	SCHAFFER ET AL

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
/GM/	45	WO	02070451	A1	09-12-2002	DUAN, J	
/GM/	46	WO	9910573	A1	03-04-1999	DEAN ET AL	
/GM/	47	JP	2002-212833	A	07-31-2002		Abstract
/GM/	48	JP	8209475	A	08-13-1996		Abstract
/GM/	49	JP	10158947	A	06-16-1998		Abstract
	50	JP	47-26597		10-25-1972		
	51	JP	48-2229		01-12-1973		
	52	JP	58-38722	A	03-07-1983		

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>

Examiner Signature		Date Considered	11/18/2007
--------------------	---	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/535,419
				Confirmation Number	5977
				Filing Date	May 19, 2005
				First Named Inventor	Yoshiki SHIRAKAWA
				Art Unit	1796
				Examiner Name	Gennadiy MESH
Sheet	4	of	5	Attorney Docket Number	

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
/GM/	53	JP	2003-070082	A	03-07-2003	MATSUSHITA ELECTRIC IND CO LTD	Abstract
	54	JP	2003-008158	A	01-10-2003	HITACHI CHEM CO LTD	Abstract
	55	CN	1078274	A	11-10-1993		
	56	CN	1302923	A	07-11-2001		
	57	JP	2003-70083	A	03-07-2003		Abstract
/GM/	58	WO	2004063441	A1	07-29-2004	TEIJIN FIBERS LTD	Abstract
	59	JP	5-106168	A	04-27-1993	TEIJIN LTD	Abstract
	60	JP	09119051	A	05-06-1997	NIPPON ESTER CO, LTD	
/GM/		WO	0181662	A1	11-01-2001		Abstract
/GM/		WO	9627036	A	09-06-1996		Abstract
/GM/		JP	62-162014	A	07-17-1987	MITSUBISHI RAYON CO LTD	Abstract
		JP	63-12737	A	01-20-1988	TEIJIN LTD	Abstract

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
/GM/	61	DATABASE WPI, Section Ch, Week 198742, Derwent Publications Ltd., London, GB; AN 1987-294861	
/GM/	62	DATABASE WPI, Section Ch, Week 199429, Derwent Publications Ltd., London, GB; AN 1994-238136	
/GM/	63	DATABASE WPI, Section Ch, Week 199419, Derwent Publications Ltd., London, GB, AN 1994-156722	
/GM/	64	DATABASE WPI, Section Ch, Week 200126, Derwent Publications Ltd., London, GB; AN 2001-247935	

<b>Examiner Signature</b>	/Gennadiy Mesh/	<b>Date Considered</b>	11/28/2007
---------------------------	-----------------	------------------------	------------

Substitute for Form 1449 A & B/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/535,419
				Confirmation Number	5977
				Filing Date	May 19, 2005
				First Named Inventor	Yoshiki SHIRAKAWA
				Art Unit	1796
				Examiner Name	Gennadiy MESH
Sheet	5	of	5	Attorney Docket Number	Q87995

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
/GM/	JP	10-96119	A	04-14-1998	TEIJIN LTD		Abstract
	JP	10-25633	A	01-27-1998	TEIJIN LTD		Abstract
/GM/	JP	9-111539	A	04-28-1997	TEIJIN LTD		Abstract
/GM/	EP	0 758 027	A1	02-12-1997	TEIJIN LTD		
/GM/	EP	1 209 260	A1	05-29-2002	TEIJIN LTD		

## NON PATENT LITERATURE DOCUMENTS

<b>Examiner Signature</b>	/Gennadiy Mesh/	<b>Date Considered</b>	11/28/2007
---------------------------	-----------------	------------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.

**Substitute for Form 1449 A & B/PTO**

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

af

1

*Complete if Known*

Application Number	10/535,419
Confirmation Number	5977
Filing Date	May 19, 2005
First Named Inventor	Yoshiki SHIRAKAWA
Art Unit	1711
Examiner Name	Gennadiy MESH
Attorney Docket Number	Q87995

**U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

## NON PATENT LITERATURE DOCUMENTS

Examiner Signature	/Gennadiy Mesh/	Date Considered	11/28/2007
--------------------	-----------------	-----------------	------------

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>